US Army Corps of Engineers

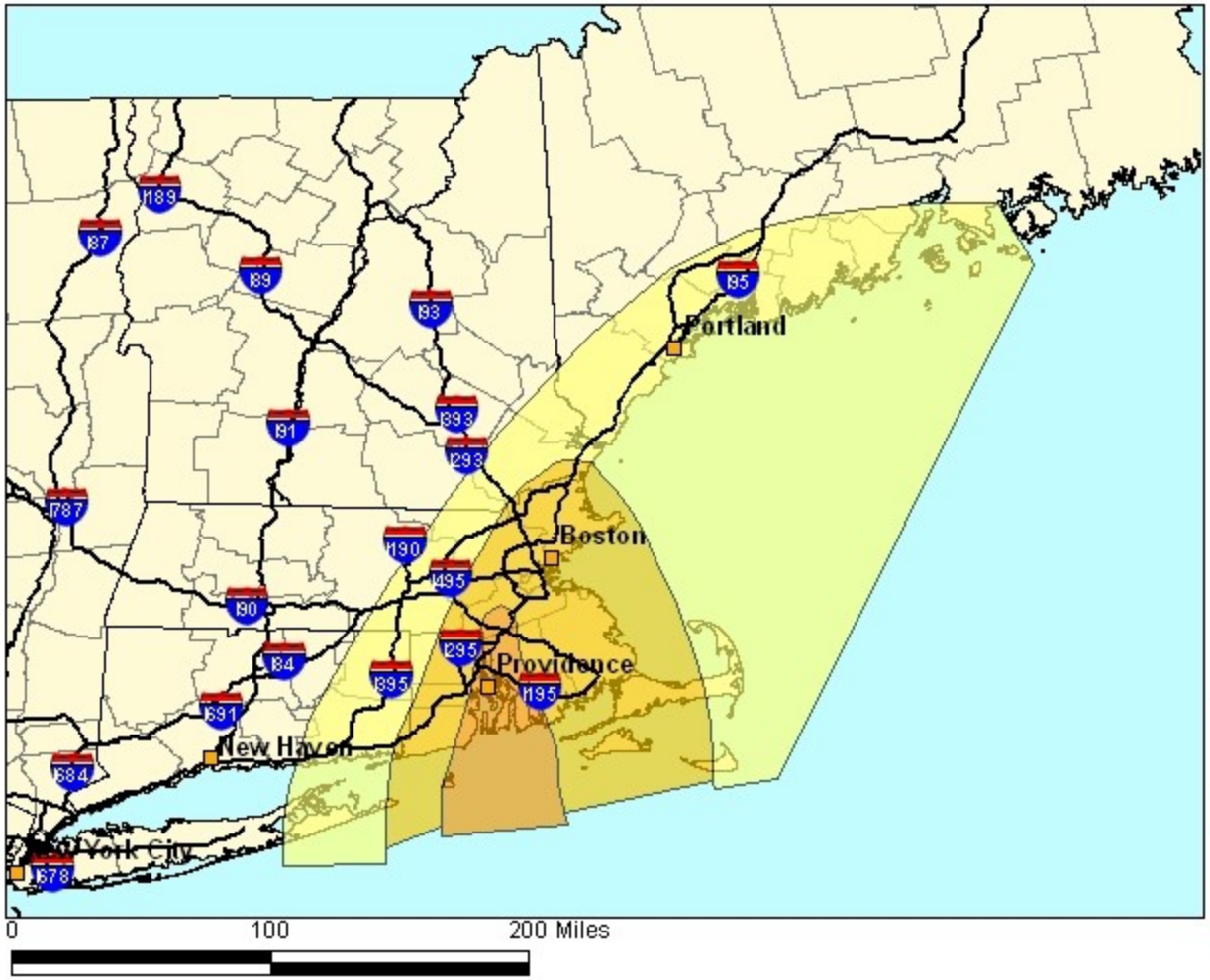
# Hurricane Yvette Projected Damage Areas

## Landfall Has Occurred

**For Official Use Only!**

***Post Landfall Projected Damage Areas***

This model is based on a Category 2 storm making landfall south of Providence, RI.




**Projected Damage Areas**

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 2 storm making landfall south of Providence, RI. These projections are based on information from the NHC (1330 EDT 04/26/2007) forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

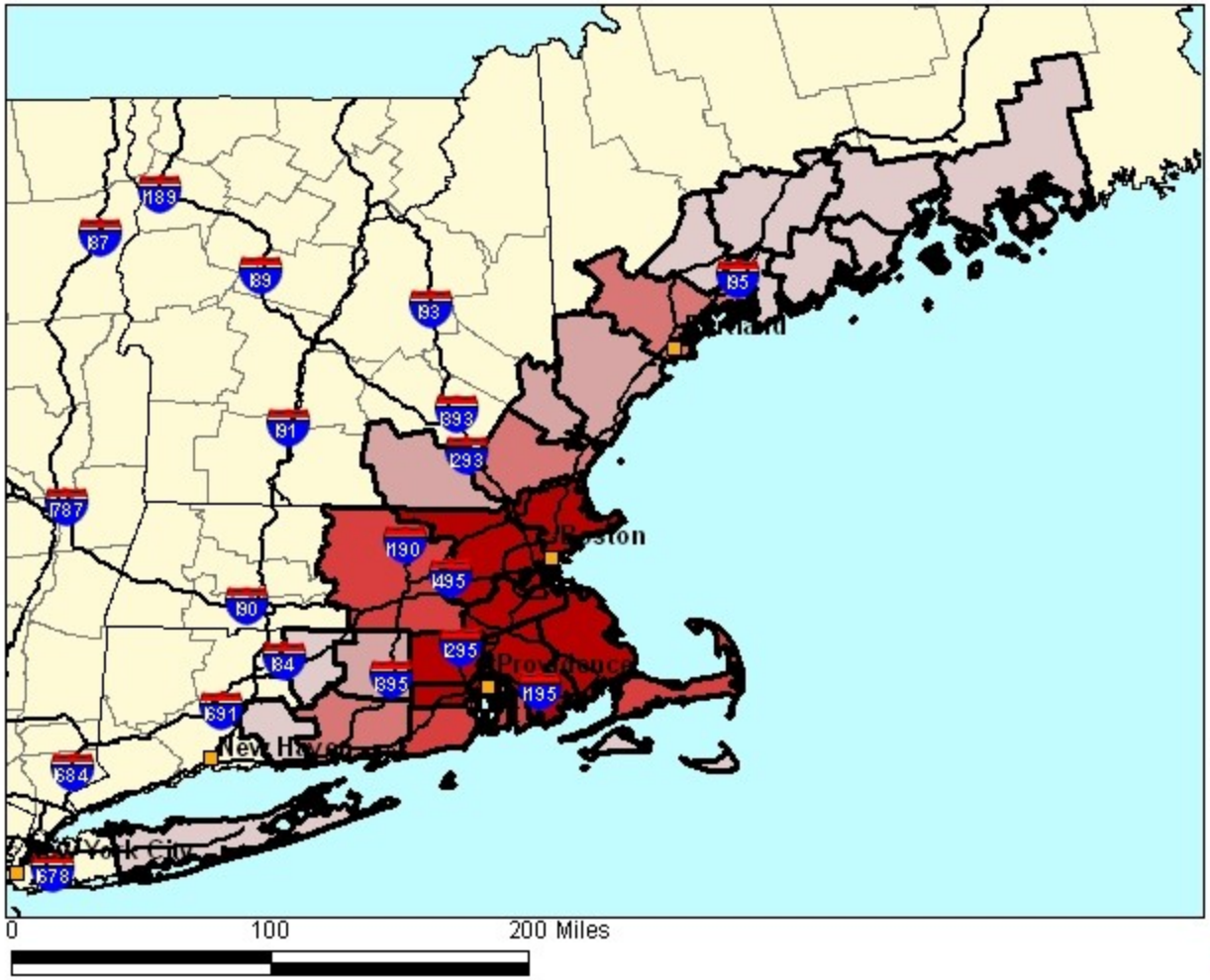
| Hurricane Yvette Projected Damage Areas | |
|---|---|
| **Generated By:** Siemsen, LRL 1400 EDT 04/26/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 1 of 13 |

US Army Corps of Engineers

# Hurricane Yvette Debris Model

## Landfall Has Occurred

**For Official Use Only!**




### *Post Landfall Debris Model Results*

MA - 17,197,000 Yards
RI - 6,887,000 Yards
ME - 764,000 Yards
NH - 721,000 Yards
CT - 402,000 Yards
NY - 67,000 Yards

*Model results per county on following page*

This model is based on a Category 2 storm making landfall south of Providence, RI.

**Debris**

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall south of Providence, RI. These projections are based on information from the NHC (1330 EDT 04/26/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Yvette Debris Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1400 EDT 04/26/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 2 of 13 |

US Army Corps of Engineers

# Hurricane Yvette Debris Model

## Landfall Has Occurred

**For Official Use Only!**

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| Connecticut | | Middlesex | 17,000 |
| | | New London | 274,000 |
| | | Toland | 5,000 |
| | | Windham | 106,000 |
| Connecticut | 402,000 | | |
| | | | |
| Maine | | Androscoggin | 78,000 |
| | | Cumberland | 293,000 |
| | | Hancock | 2,000 |
| | | Kennebec | 33,000 |
| | | Knox | 49,000 |
| | | Lincoln | 42,000 |
| | | Sagadahoc | 42,000 |
| | | Waldo | 8,000 |
| | | York | 217,000 |
| Maine | 764,000 | | |
| | | | |
| Massachusetts | | Barnstable | 675,000 |
| | | Bristol | 3,264,000 |
| | | Dukes | 57,000 |
| | | Essex | 2,367,000 |
| | | Middlesex | 3,991,000 |
| | | Nantucket | 25,000 |
| | | Norfolk | 2,410,000 |
| | | Plymouth | 1,474,000 |
| | | Suffolk | 2,243,000 |
| | | Worcester | 691,000 |
| Massachusetts | 17,197,000 | | |
| | | | |
| New Hampshire | | Hillsborough | 151,000 |
| | | Rockingham | 454,000 |
| | | Strafford | 116,000 |

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| New Hampshire | 721,000 | | |
| (continued) | | | |
| New York | | Suffolk | 67,000 |
| New York | 67,000 | | |
| | | | |
| Rhode Island | | Bristol | 470,000 |
| | | Kent | 1,027,000 |
| | | Newport | 824,000 |
| | | Providence | 3,829,000 |
| | | Washington | 737,000 |
| Rhode Island | 6,887,000 | | |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

**Hurricane Yvette Debris Model**

**Generated By:**
Siemsen, LRL 1400 EDT 04/26/2007

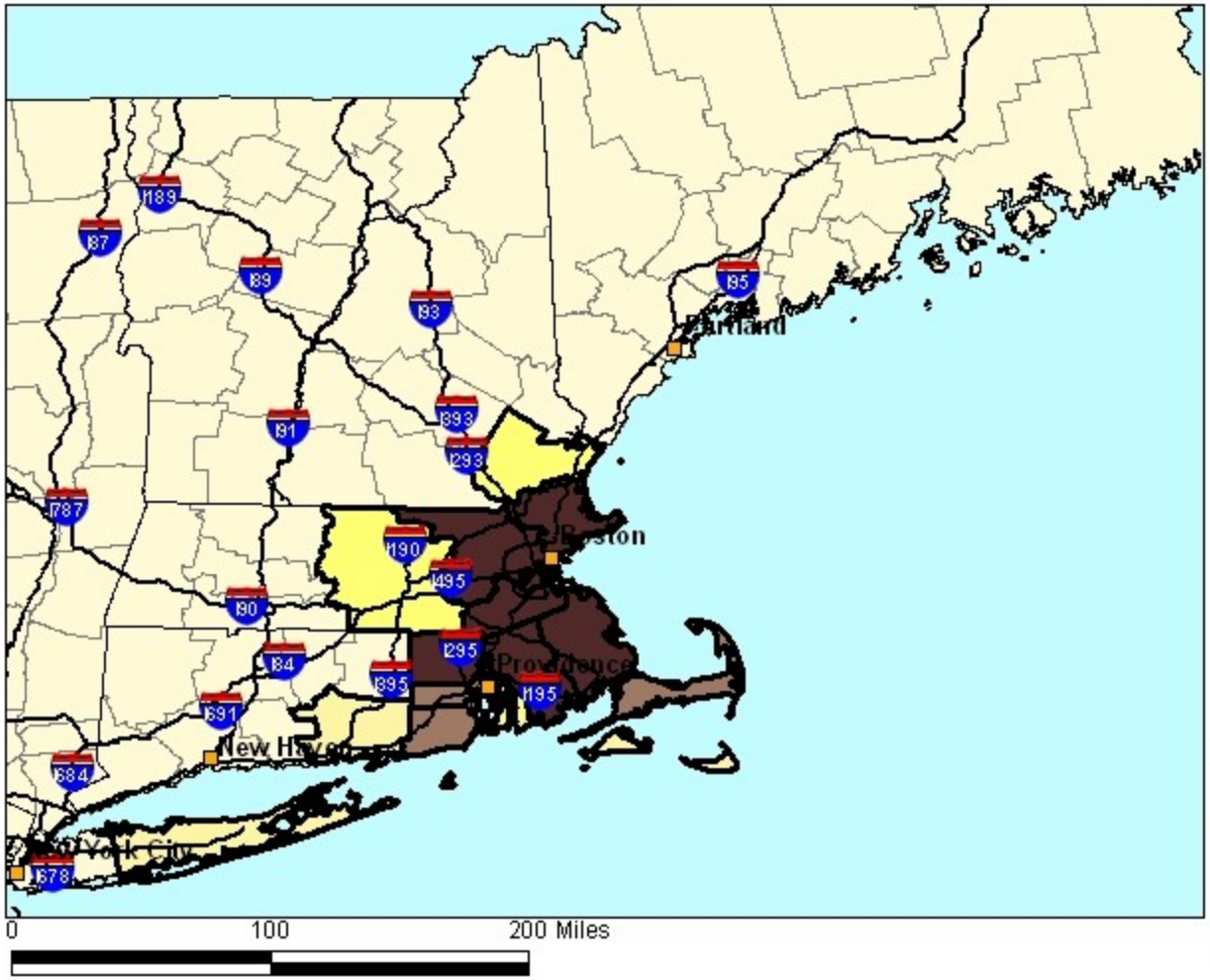
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Yvette Population Model

## Landfall Has Occurred

**For Official Use Only!**




### *Post Landfall Population Model Results*

Massachusetts - 4,468,000
Rhode Island - 1,057,000
New Hampshire - 70,000
Connecticut - 12,000
New York - 2,000

*Model results per county on following page*

This model is based on a Category 2 storm making landfall south of Providence, RI.

**Population**

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall south of Providence, RI. These projections are based on information from the NHC (1330 EDT 04/26/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Yvette Population Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1400 EDT 04/26/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 4 of 13 |

US Army Corps of Engineers

# Hurricane Yvette Population Model

## Landfall Has Occurred

**For Official Use Only!**

| State | Population per State | County | Population per County |
|---|---|---|---|
| Connecticut | | New London | 12,000 |
| Connecticut | 12,000 | | |
| | | | |
| Massachusetts | | Barnstable | 173,000 |
| | | Bristol | 546,000 |
| | | Dukes | 16,000 |
| | | Essex | 740,000 |
| | | Middlesex | 1,125,000 |
| | | Nantucket | 7,000 |
| | | Norfolk | 654,000 |
| | | Plymouth | 493,000 |
| | | Suffolk | 660,000 |
| | | Worcester | 54,000 |
| Massachusetts | 4,468,000 | | |
| | | | |
| New Hampshire | | Rockingham | 70,000 |
| New Hampshire | 70,000 | | |
| | | | |
| New York | | Suffolk | 2,000 |
| New York | 2,000 | | |
| | | | |
| Rhode Island | | Bristol | 53,000 |
| | | Kent | 171,000 |
| | | Newport | 84,000 |
| | | Providence | 620,000 |
| | | Washington | 129,000 |
| Rhode Island | 1,057,000 | | |

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

**Hurricane Yvette Population Model**

**Generated By:**
Siemsen, LRL 1400 EDT 04/26/2007

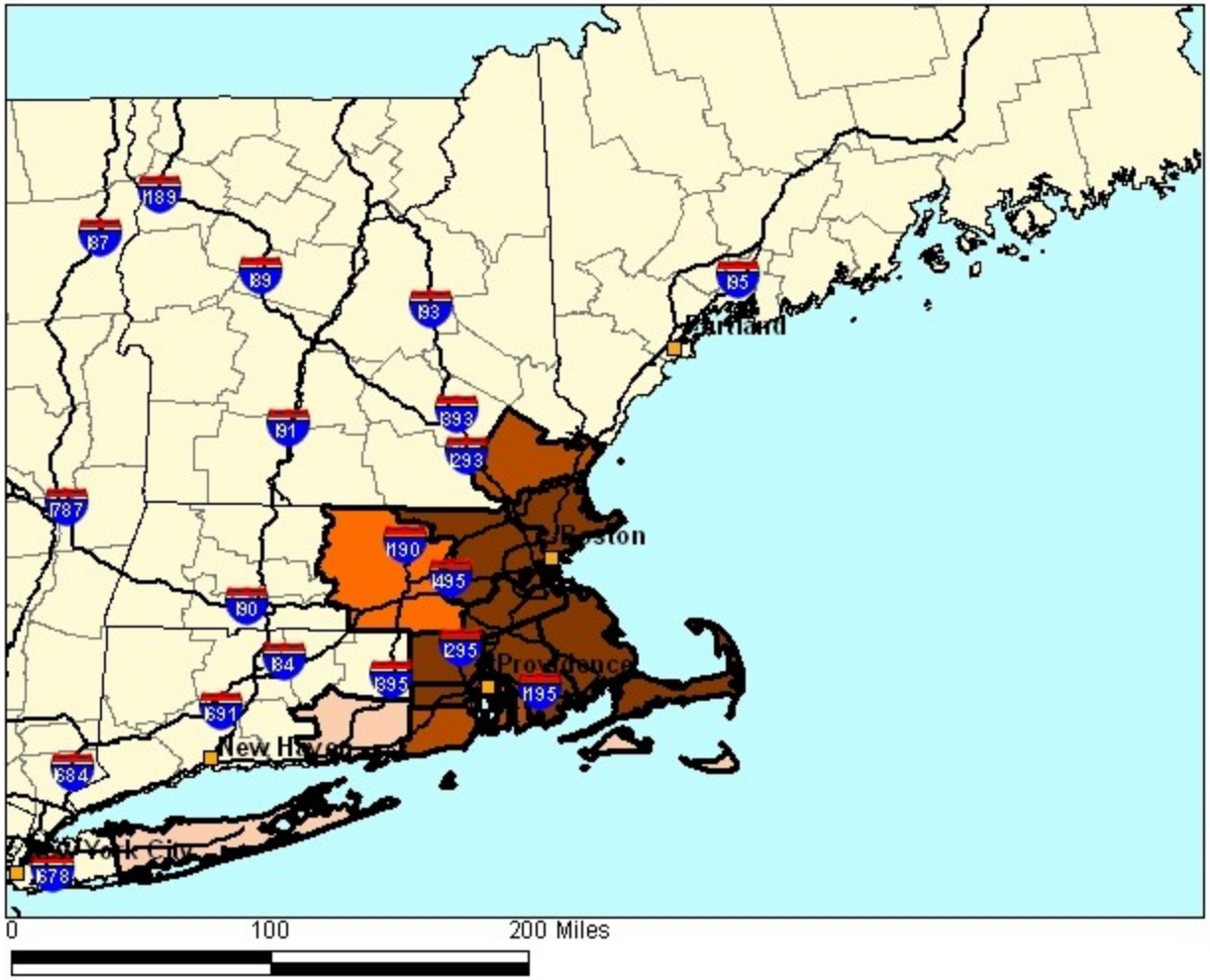
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Yvette Households Model

## Landfall Has Occurred

**For Official Use Only!**




### *Post Landfall Households Model Results*

Massachusetts - 1,727,000
Rhode Island - 413,000
New Hampshire - 28,000
Connecticut - 5,000

*Model results per county on following page*

This model is based on a Category 2 storm making landfall south of Providence, RI.

**Households**

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall south of Providence, RI. These projections are based on information from the NHC (1330 EDT 04/26/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Yvette Households Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1400 EDT 04/26/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS |  |

US Army Corps of Engineers

# Hurricane Yvette Households Model

## Landfall Has Occurred

**For Official Use Only!**

| State | Households per State | County | Households per County |
|---|---|---|---|
| Connecticut | | New London | 5,000 |
| Connecticut | 5,000 | | |
| | | | |
| Massachusetts | | Barnstable | 73,000 |
| | | Bristol | 210,000 |
| | | Dukes | 7,000 |
| | | Essex | 282,000 |
| | | Middlesex | 438,000 |
| | | Nantucket | 3,000 |
| | | Norfolk | 251,000 |
| | | Plymouth | 176,000 |
| | | Suffolk | 267,000 |
| | | Worcester | 20,000 |
| Massachusetts | 1,727,000 | | |
| | | | |
| New Hampshire | | Rockingham | 28,000 |
| New Hampshire | 28,000 | | |
| | | | |
| New York | | Suffolk | < 1,000 |
| New York | | | |
| | | | |
| Rhode Island | | Bristol | 20,000 |
| | | Kent | 69,000 |
| | | Newport | 35,000 |
| | | Providence | 240,000 |
| | | Washington | 49,000 |
| Rhode Island | 413,000 | | |

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

**Hurricane Yvette Households Model**

**Generated By:**
Siemsen, LRL 1400 EDT 04/26/2007

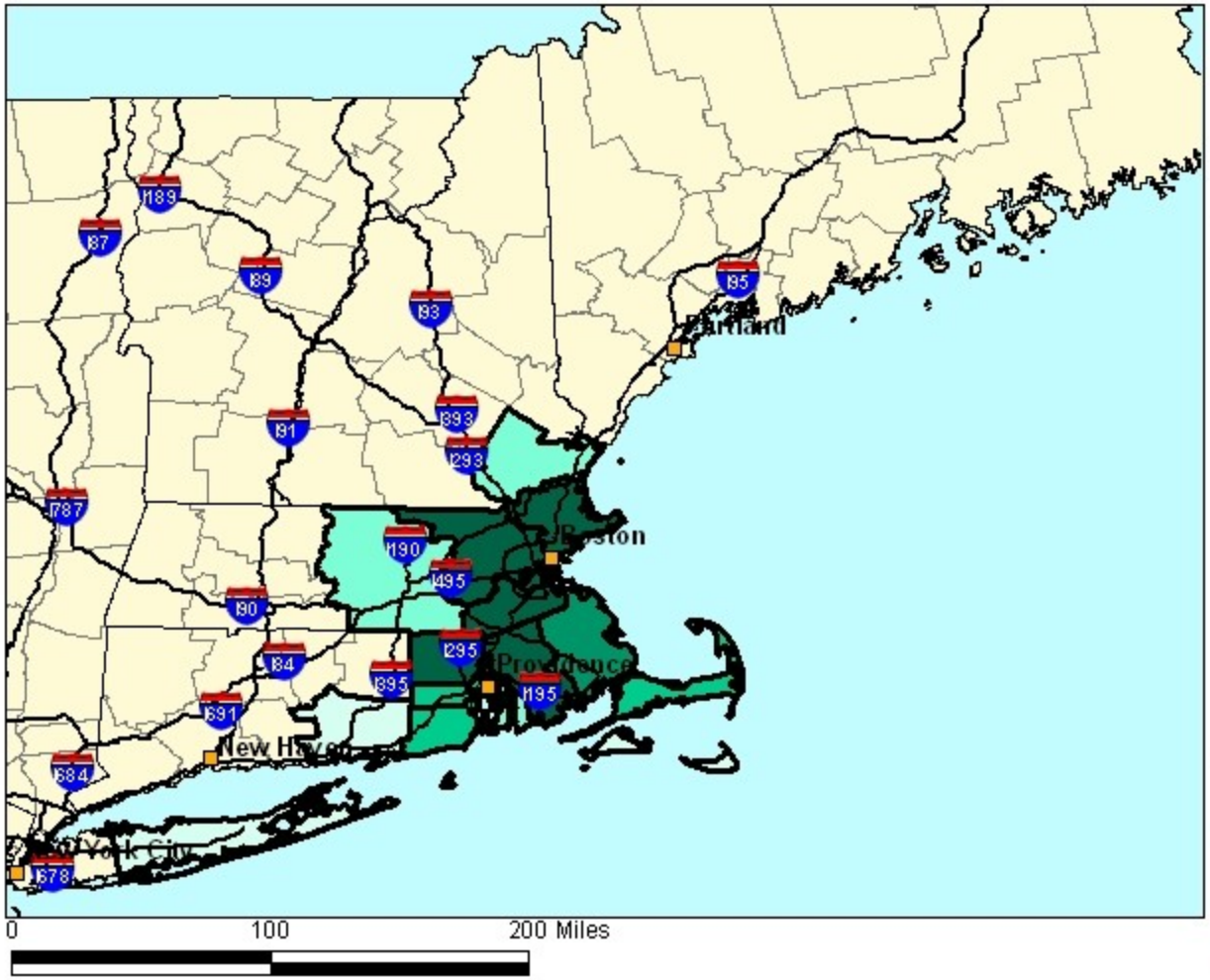
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Yvette Commodities Model

## Landfall Has Occurred

**For Official Use Only!**




0 100 200 Miles

***Post Landfall Ice/Water Model Results***

**Day One / Day Two / Day Three**

MA -90 /181/362 Truckloads Each
RI - 22/44/87 Truckloads Each
NH - 2/3/6 Truckloads Each
NY – 1/1/1 Truckload Each
CT – 1/1/1 Truckload Each

*Model results per county on following page*

This model is based on a Category 2 storm making landfall south of Providence, RI.

**Commodities**

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall south of Providence, RI. These projections are based on information from the NHC ***(1330 EDT 04/26/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

| Hurricane Yvette Commodities Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1400 EDT 04/26/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 8 of 13 |

US Army Corps of Engineers

# Hurricane Yvette Commodities Model

## Landfall Has Occurred

**For Official Use Only!**

| State | Truckloads per State | County | Truckloads per County |
|---|---|---|---|
| Connecticut | | New London | 1 |
| Connecticut | 1 | | |
| | | | |
| Massachusetts | | Barnstable | 14 |
| | | Bristol | 44 |
| | | Dukes | 2 |
| | | Essex | 60 |
| | | Middlesex | 90 |
| | | Nantucket | 1 |
| | | Norfolk | 53 |
| | | Plymouth | 40 |
| | | Suffolk | 53 |
| | | Worcester | 5 |
| Massachusetts | 362 | | |
| | | | |
| New Hampshire | | Rockingham | 6 |
| New Hampshire | 6 | | |
| | | | |
| New York | | Suffolk | 1 |
| New York | 1 | | |
| | | | |
| Rhode Island | | Bristol | 5 |
| | | Kent | 14 |
| | | Newport | 7 |
| | | Providence | 50 |
| | | Washington | 11 |
| Rhode Island | 87 | | |

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

**Hurricane Yvette Commodities Model**

**Generated By:**
Siemsen, LRL 1400 EDT 04/26/2007

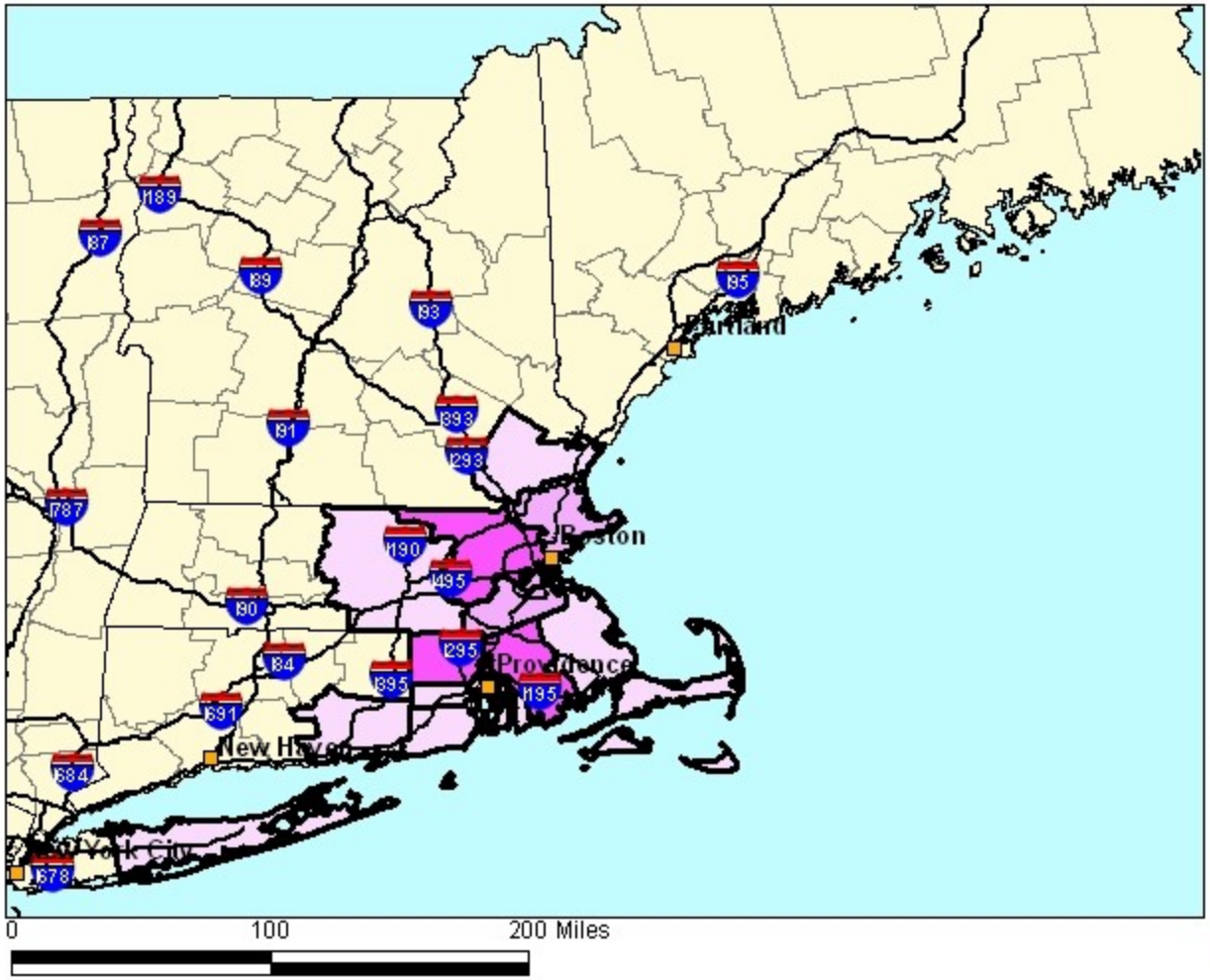
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Yvette Temporary Housing Model

## Landfall Has Occurred

**For Official Use Only!**




### *Post Landfall Temporary Housing Model Results*

Massachusetts - 21,100
Rhode Island - 10,900
New Hampshire - 300

*Model results per county on following page*

This model is based on a Category 2 storm making landfall south of Providence, RI.

**Temporary Housing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall south of Providence, RI. These projections are based on information from the NHC (1330 EDT 04/26/2007) forecast. Temporary housing is based on 1% in CAT 1 and 4% in CAT 2.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Yvette Housing Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1400 EDT 04/26/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 10 of 13 |

US Army Corps of Engineers

# Hurricane Yvette Temporary Housing Model

## Landfall Has Occurred

**For Official Use Only!**

| State | per State | County | per County |
|---|---|---|---|
| Connecticut | | New London | < 100 |
| Connecticut | | | |
| | | | |
| Massachusetts | | Barnstable | 800 |
| | | Bristol | 5,100 |
| | | Dukes | < 100 |
| | | Essex | 2,900 |
| | | Middlesex | 4,400 |
| | | Nantucket | < 100 |
| | | Norfolk | 3,200 |
| | | Plymouth | 1,800 |
| | | Suffolk | 2,700 |
| | | Worcester | 200 |
| Massachusetts | 21,100 | | |
| | | | |
| New Hampshire | | Rockingham | 300 |
| New Hampshire | 300 | | |
| | | | |
| New York | | Suffolk | < 100 |
| New York | | | |
| | | | |
| Rhode Island | | Bristol | 800 |
| | | Kent | 1,600 |
| | | Newport | 1,400 |
| | | Providence | 5,900 |
| | | Washington | 1,200 |
| Rhode Island | 10,900 | | |

**THIS IS AN EXPERIMENTAL MODEL!!**

Temporary housing is based on 1% in CAT 1 and 4% in CAT 2.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

**Hurricane Yvette Housing Model**

**Generated By:**
Siemsen, LRL 1400 EDT 04/26/2007

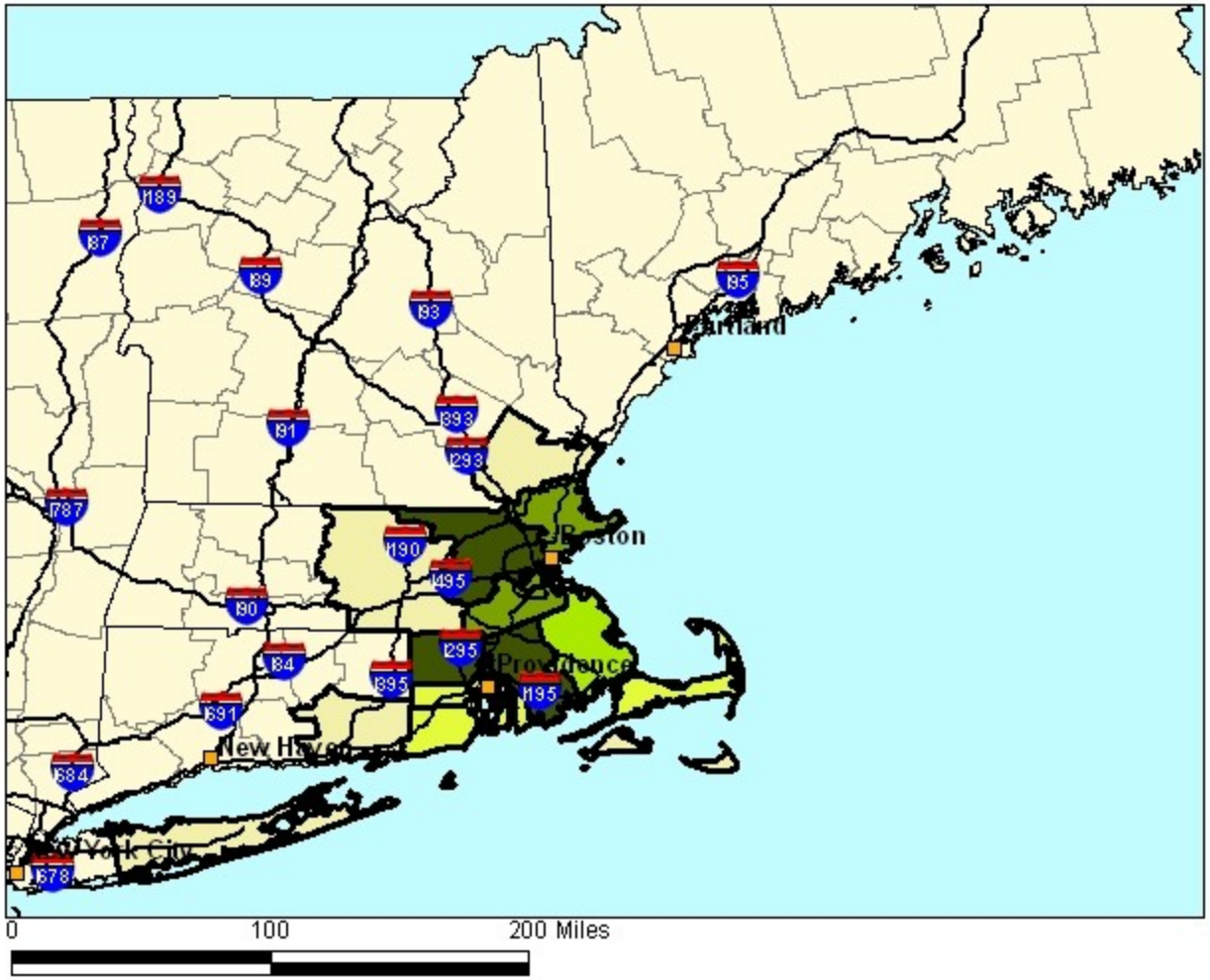
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Yvette Temporary Roofing Model

## Landfall Has Occurred

**For Official Use Only!**




### *Post Landfall Temporary Roofing Model Results*

Massachusetts - 56,800
Rhode Island - 21,500
New Hampshire - 900
Connecticut - 200

*Model results per county on following page*

This model is based on a Category 2 storm making landfall south of Providence, RI.

**Temporary Roofing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall south of Providence, RI. These projections are based on information from the NHC (1330 EDT 04/26/2007) forecast. Temporary roofing is based on 3% in CAT 1 and 7% in CAT 2.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Yvette Roofing Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1400 EDT 04/26/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 12 of 13 |

US Army Corps of Engineers

# Hurricane Yvette Temporary Roofing Model

## Landfall Has Occurred

**For Official Use Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Connecticut | | New London | 200 |
| Connecticut | 200 | | |
| | | | |
| Massachusetts | | Barnstable | 2,200 |
| | | Bristol | 10,200 |
| | | Dukes | 300 |
| | | Essex | 8,500 |
| | | Middlesex | 13,200 |
| | | Nantucket | < 100 |
| | | Norfolk | 8,400 |
| | | Plymouth | 5,300 |
| | | Suffolk | 8,100 |
| | | Worcester | 600 |
| Massachusetts | 56,800 | | |
| | | | |
| New Hampshire | | Rockingham | 900 |
| New Hampshire | 900 | | |
| | | | |
| New York | | Suffolk | < 100 |
| New York | | | |
| | | | |
| Rhode Island | | Bristol | 1,400 |
| | | Kent | 3,300 |
| | | Newport | 2,500 |
| | | Providence | 11,900 |
| | | Washington | 2,400 |
| Rhode Island | 21,500 | | |

**THIS IS AN EXPERIMENTAL MODEL!!**

Temporary roofing is based on 3% in CAT 1 and 7% in CAT 2.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

**Hurricane Yvette Roofing Model**

**Generated By:**
Siemsen, LRL 1400 EDT 04/26/2007

**Sources:**
HURREVAC
LRL-DEBRIS